| | CM Sar hnology Corp | | | |
|---|---------------------------------|---|--|--|
| SPECIFICA1 | TION FOR A | PPROVAL | | |
| | | | | |
| CUSTOMER | | | | |
| NOMINAL FREQUENCY | 16.00 | 16.000000 MHz | | |
| PRODUCT TYPE | TYPE FL 3.2x2.5 S | EAM SEALED CRYSTAL | | |
| SPEC. NO. (P/N) | FL | 1600044 | | |
| CUSTOMER P/N | | | | |
| ISSUE DATE | SUE DATE Decer | | | |
| VERSION | DN B | | | |
| APPROVED | PREPARED | QA | | |
| Alan Yang | Brenda | Canthen | | |
| APPROVED BY | APPROVED BY CUSTOMER : | | | |
| Please return one copy w | <i>v</i> ith approval to PSE-TW | | | |
| PSE Technology Corpo | | | | |
| No.2, Tzu-Chiang 5th Rd, Chung Li Industrial Park, Chung Li City, Taoyuan County, Taiwan (R.O.C.)*PtTEL: 886-3-451-8888 FAX: 886-3-461-3865 http://www.saronix-ecera.com.tw*Rf | | Pb-free RoHS Compliant HF-Halogen Free REACH Compliant | | |
| *** A company of 🧖 | PERICOM Semicond | uctor Corporation *** | | |

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL1600044

VER. B 5-Dec-11

VERSION HISTORY

| Version No. | Version Date | Customer Receipt Date | Supplier Receipt Date | Description | Notes |
|----------------|-----------------|--------------------------|--------------------------|--|-------|
| А | Apr.29,2009 | | | Initial Release | |
| В | Dec.5,2011 | | | Updated Suggested IR Reflow Profile & Format | |
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TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL1600044

VER. B 5-Dec-11

ELECTRICAL SPECIFICATIONS

| ltem | Symbol | Specifications | Units | Notes |
|--|--------|--------------------|-------|------------------------------------|
| Nominal Frequency | Fn | 16.000000 | MHz | |
| Mode of Oscillation | MO | AT Cut-Fundamental | | |
| Calibration Load Capacitance | CL | 8 | pF | |
| Calibration Tolerance | FL | ±15 | ppm | at 25°C±3°C |
| Operating Temperature Range | TR | -10 to +75 | °C | |
| Frequency Stability (Frequency Deviation over the Operating Temperature Range) | F/T | ±15 | ppm | Reference to the Frequency at 25°C |
| Operating Drive Level | | 10 | μW | |
| Maximum Drive Level | | 200 | μW | |
| Equivalent Series Resistance | ESR | 80 | Ω | Мах |
| Shunt Capacitance | C0 | 5 | pF | Мах |
| Aging at 25°C | | ±3 | ppm | Max, 1st year |
| Storage Temperature | | -55 to +125 | °C | |
| Insulation Resistance | | 500 | MΩ | Min |

* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).



TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL1600044

VER. B 5-Dec-11

RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

a) FINE LEAK TEST: JESD22-A109 (Condition 1A)

b) GROSS LEAK TEST: JESD22-A109 (Condition C)

c) MOISTURE RESISTANCE: JESD22-A113

d) SHOCK: JESD22-B104 (Condition B)

e) SOLDERABILITY : (RoHS version): J-STD-002

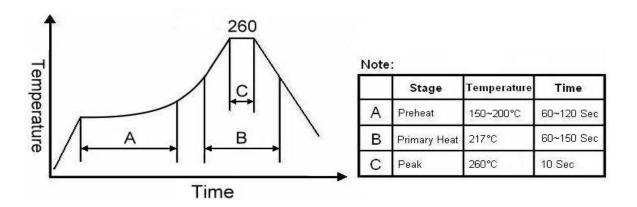
f) VIBRATION: JESD22-B103

g) SOLVENT RESISTANCE: JESD22-B107

h) RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

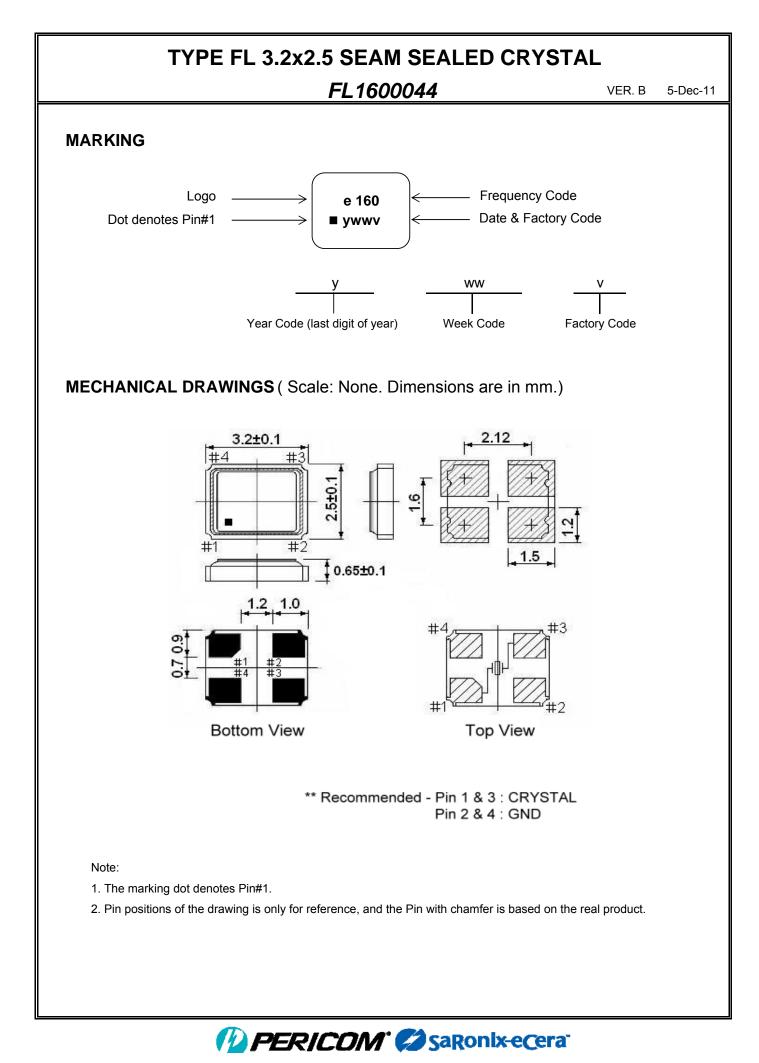
SUGGESTED IR REFLOW PROFILE

*As per IPC-JEDEC J-STD-020D



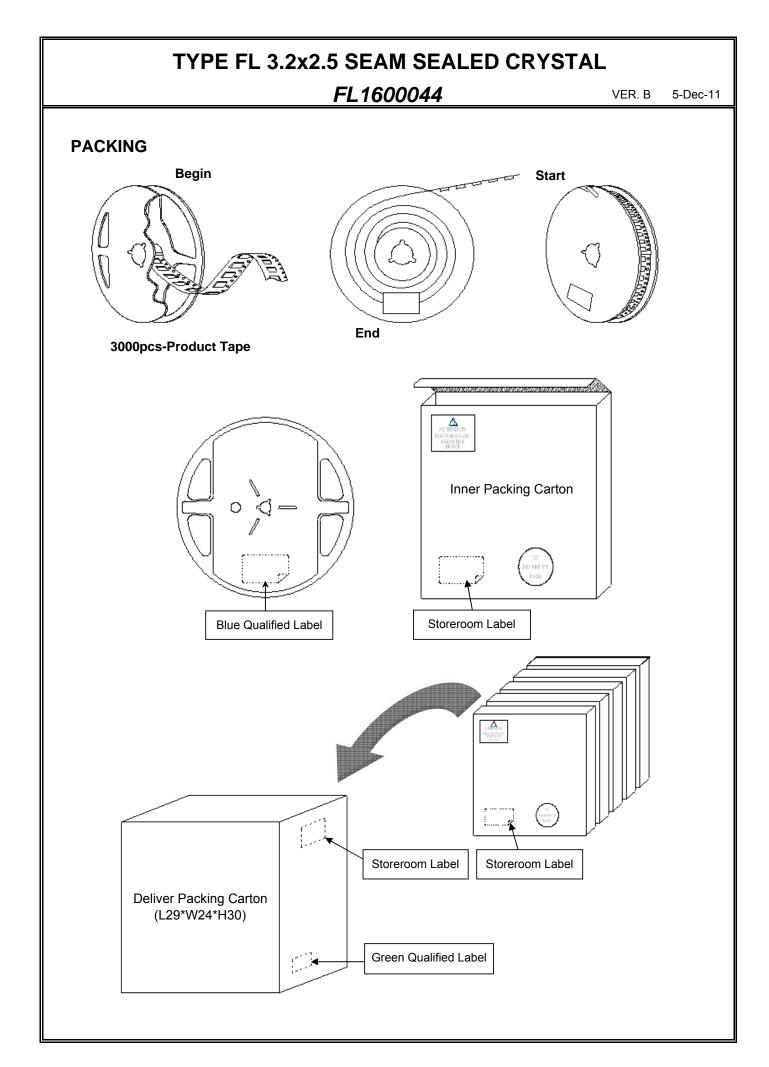
For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf





TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL FL1600044 VER. B 5-Dec-11 Tape & Reel Index Mark 2.0 Ø1.0 ,25±0,05 Ø1.55 4.01.75 R0.3 \oplus (MAX.) Ŧ 3.5±0.05 8±0.2 3.4 53 2.7 8.0 Feeding 1.4 Ø60.2±0.5 178-3 9,0±0,3 12±1.4 1. 230mm minimum leafer which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape. 2. 160mm minimum trailer of empty carrier tape sealed with cover tape.







Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Diodes Incorporated: FL1600044